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(54) **Diaphanometer device and its use method.**

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#### CLAIM

Medical or surgical investigation device intended to be used more specifically for investigating breast diseases and derived from the known technique of diaphanoscopic observation used in particular to screen for breast lesions, characterized in that it comprises two parallel plates intended to be positioned on either side of the breast that is to be explored, these two plates being arranged so that they can be brought together, still in respectively parallel position, against said wall of the breast so that the investigation components consisting on one of the plates, hereinafter called the “emitting plate,” of an intense light source preferably made up of the extremity of a bundle of fiberglass, called fiber optics, are appropriately connected to a light emitter, while the other plate, called “receiving plate,” preferably bears, in line with the fiber optics bundle, a photosensitive cell connected to a display and/or calculating unit for the luminous intensity received by said cell, the two plates being connected to one another by a device arranged in order to calculate and display the distance between them and in that the two plates are connected by light-proof components such as, for example, bellows and/or opaque shields arranged to allow the insertion of the breast between said plates.